

FIGURE 1 - SYSTEM BLOCK DIAGRAM

FIG 2 - ANALOG TELEPHONY BOARD

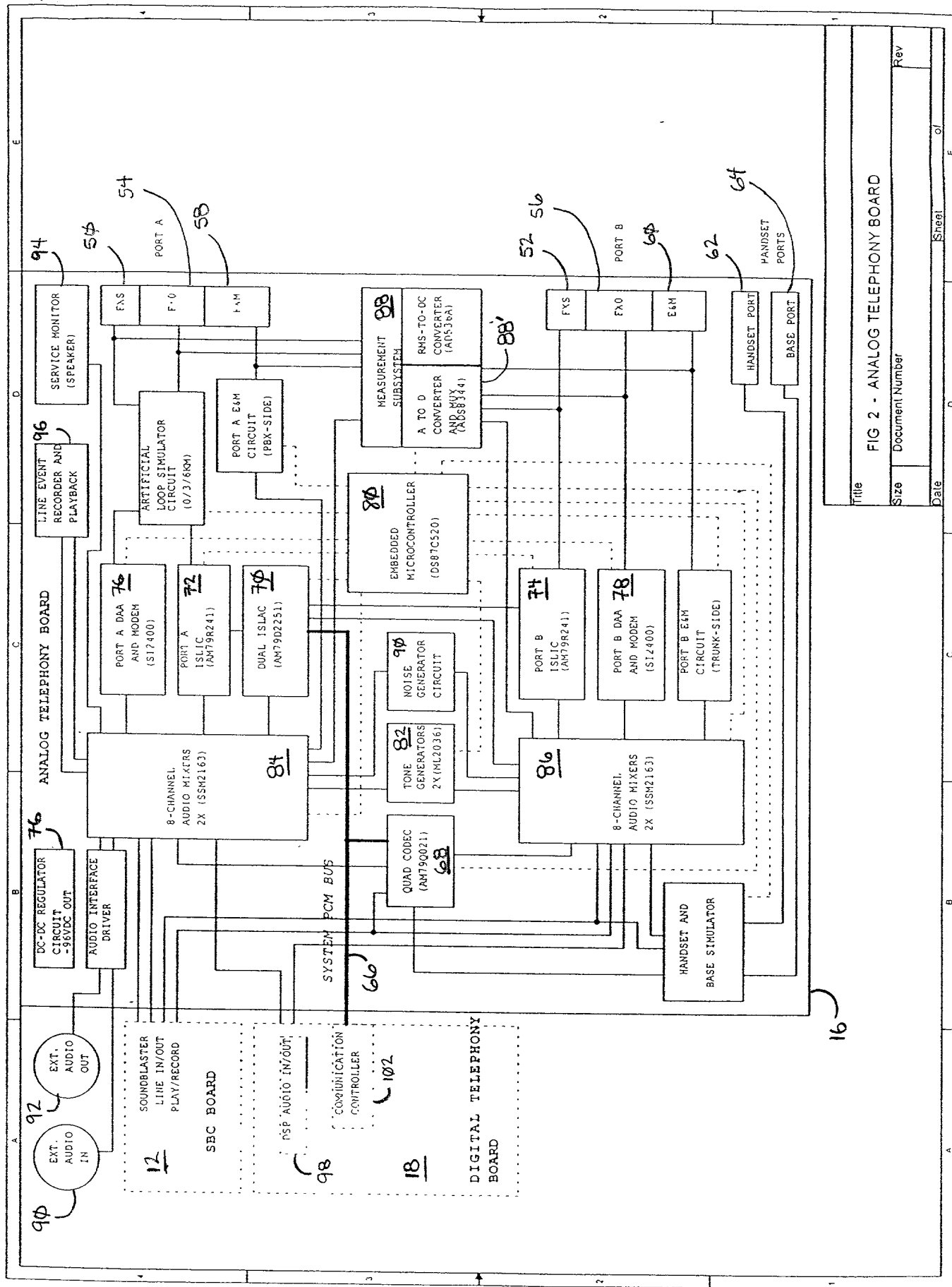


FIG 2 - ANALOG TELEPHONY BOARD

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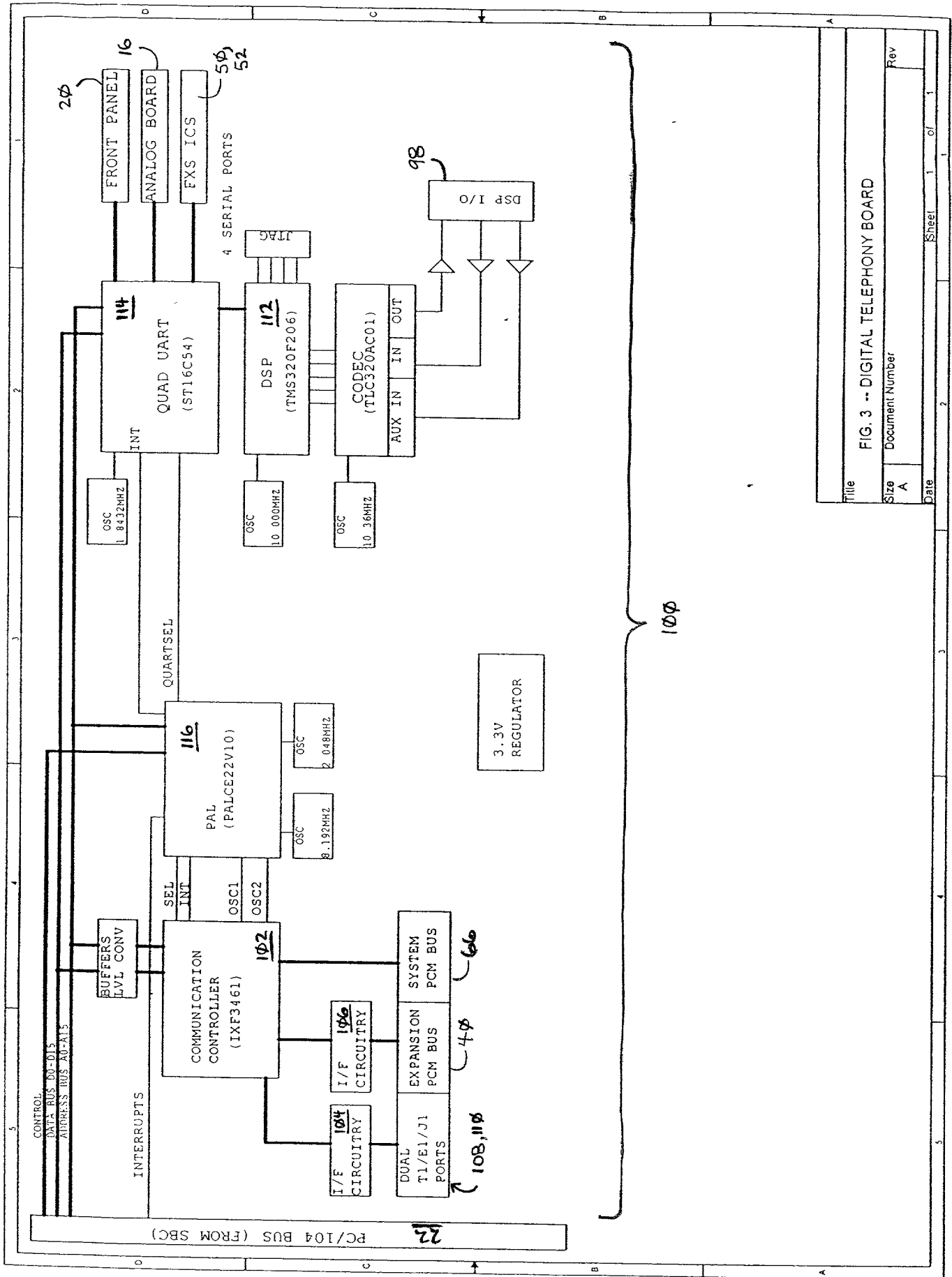


FIG. 3 -- DIGITAL TELEPHONY BOARD

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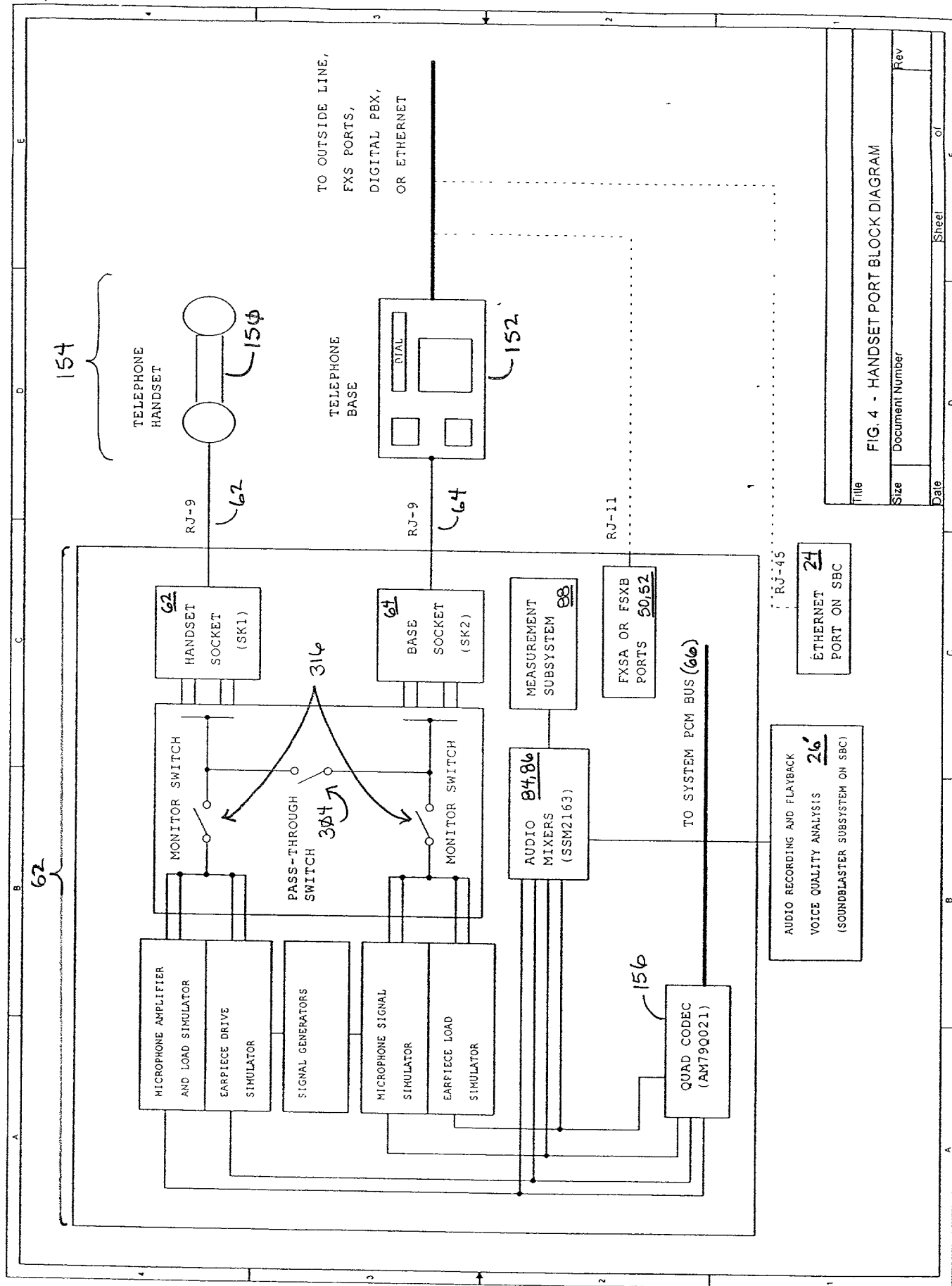


FIG. 4 - HANDSET PORT BLOCK DIAGRAM

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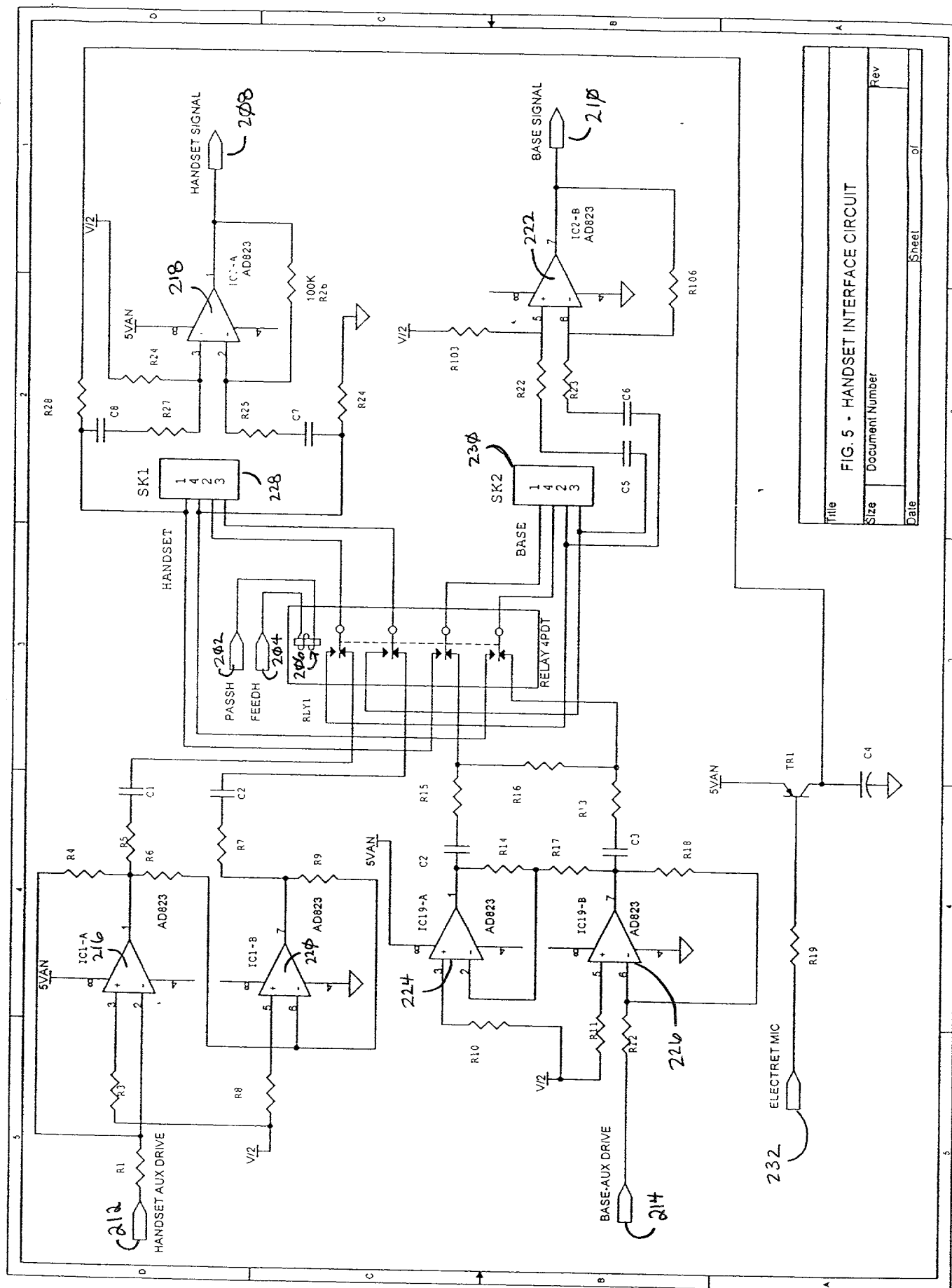
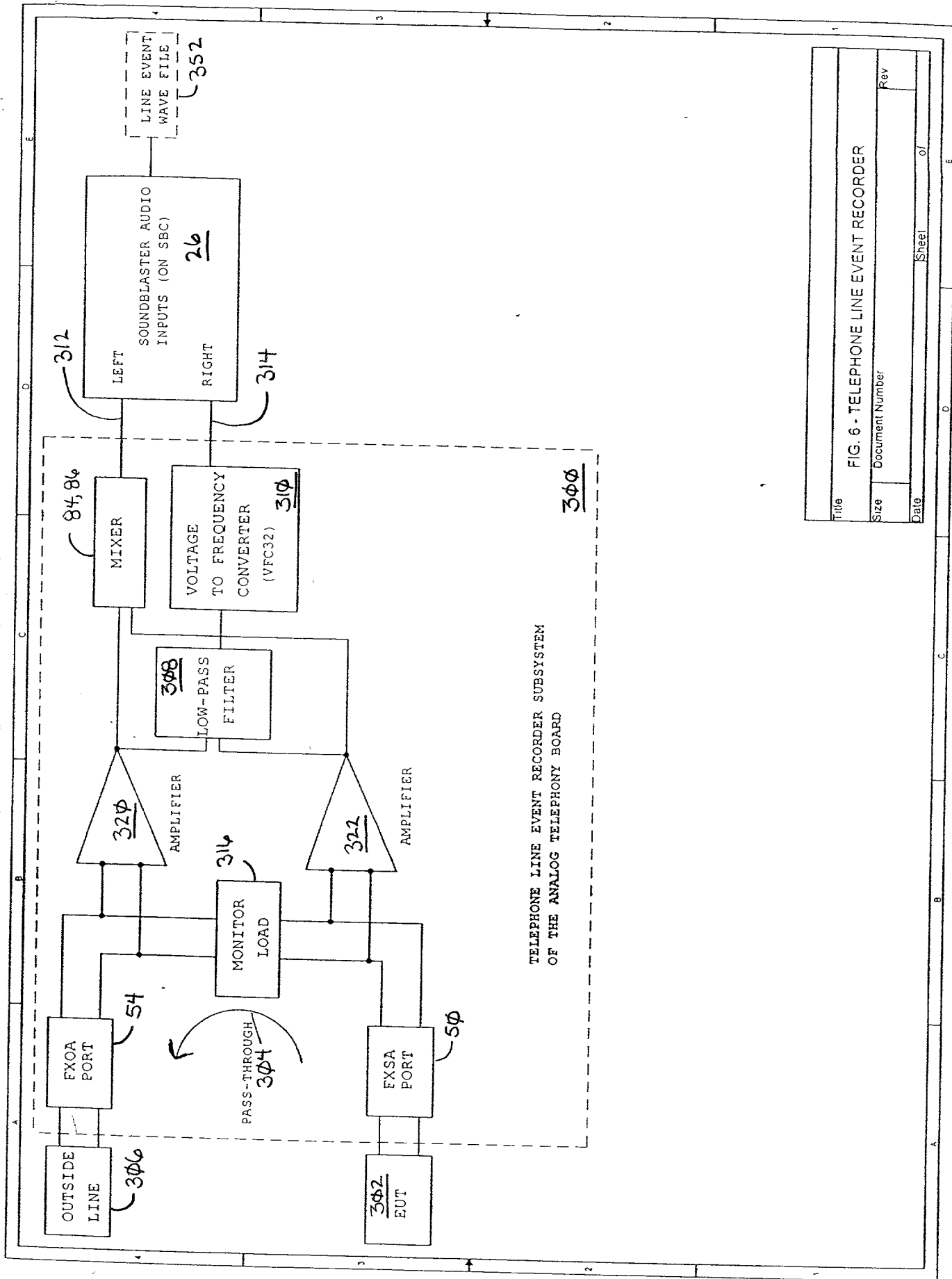


FIG. 5 - HANDSET INTERFACE CIRCUIT

|       |                 |     |
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| Title                                  |                 |
| FIG. 6 - TELEPHONE LINE EVENT RECORDER |                 |
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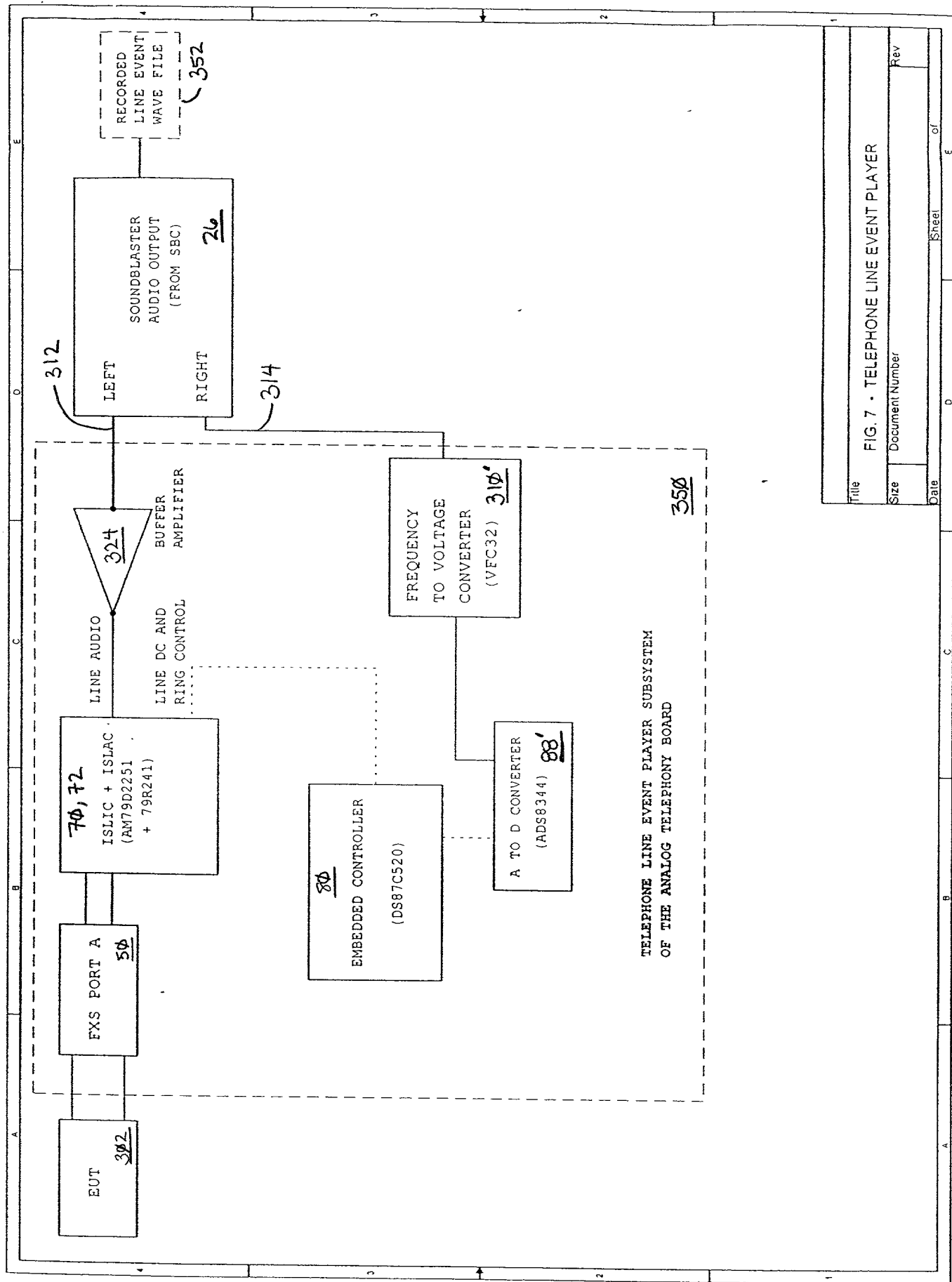


FIG. 7 - TELEPHONE LINE EVENT PLAYER

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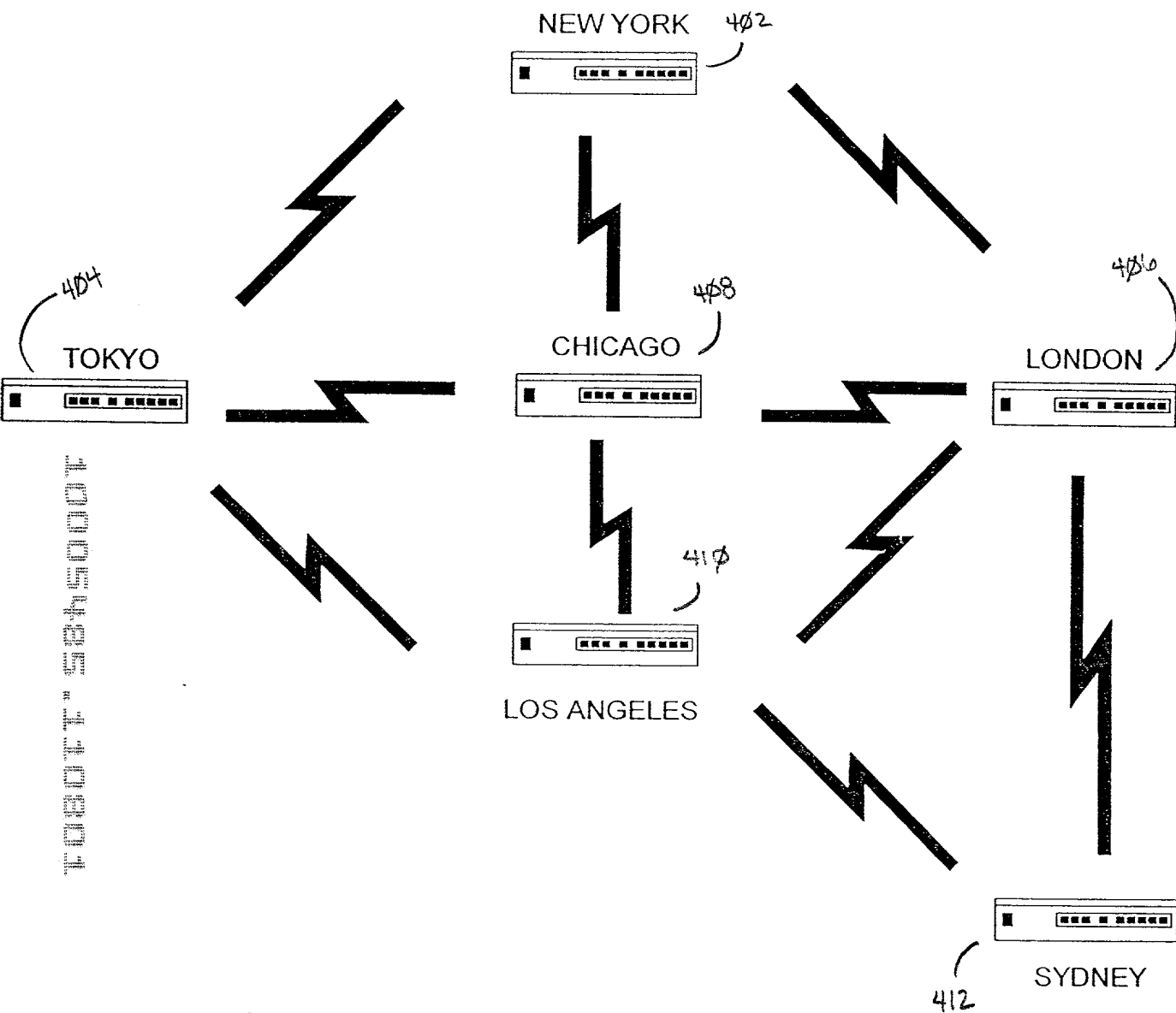
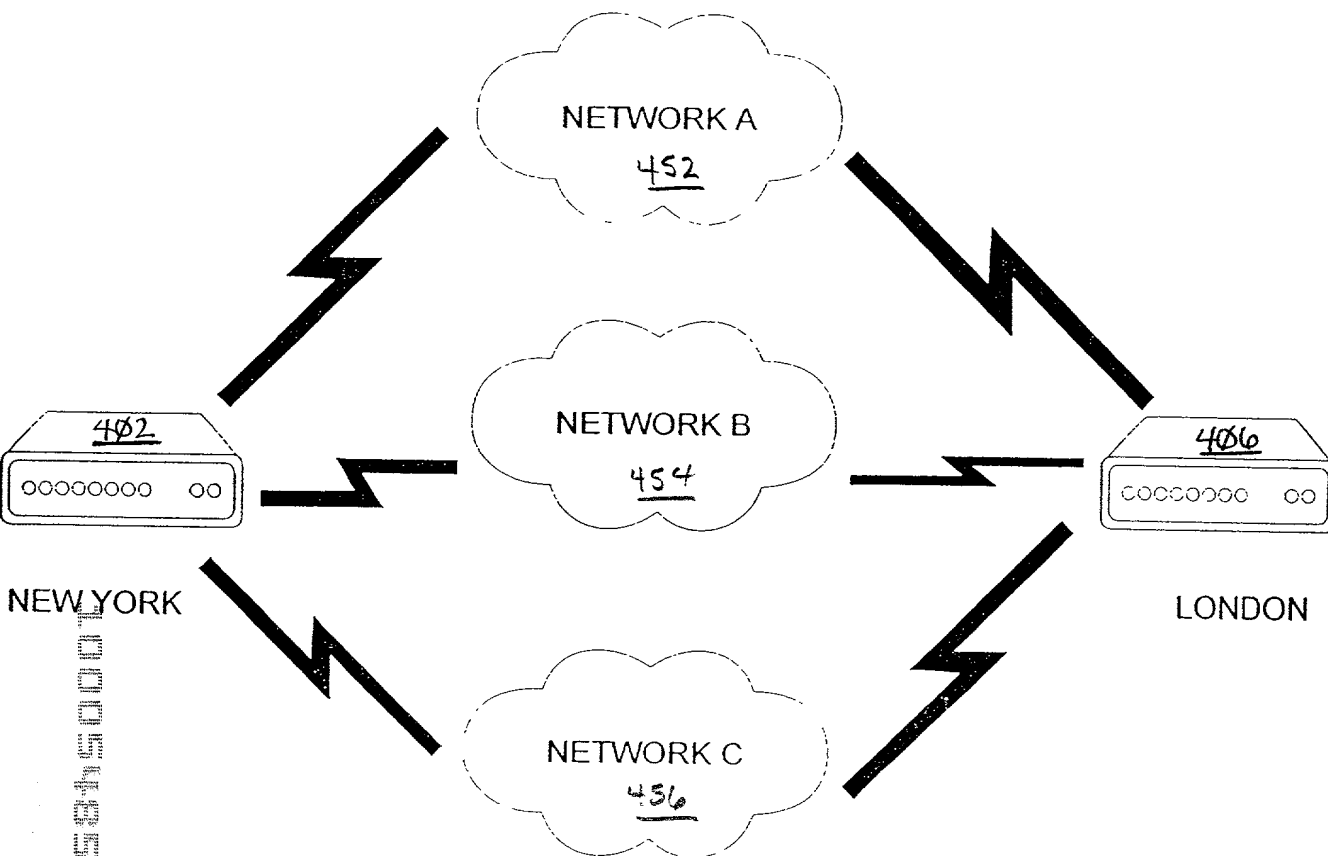


FIGURE 8 - A NETWORK OF SERVICE QUALITY TESTERS

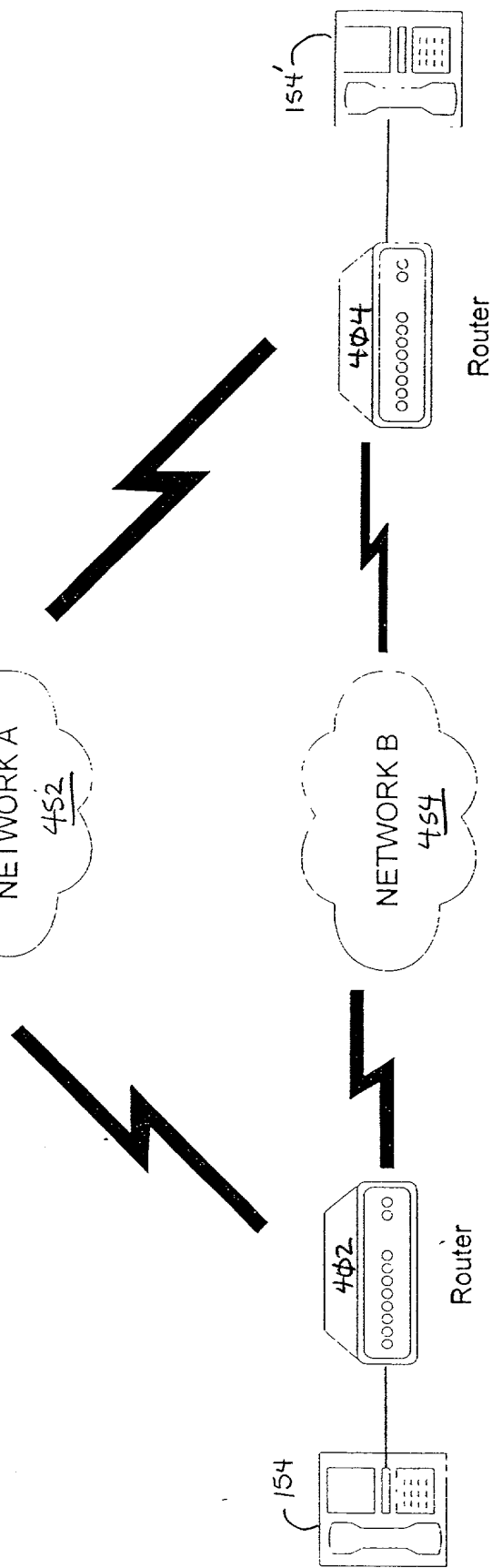


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|                       | A  | B  | C  |
|-----------------------|----|----|----|
| PSQM (1-10)           | 6  | 6  | 7  |
| COST (1-10)           | 8  | 7  | 5  |
| PACKET TESTS (1-5)    | 3  | 3  | 4  |
| TELEPHONY TESTS (1-5) | 2  | 5  | 4  |
| TOTAL                 | 19 | 21 | 20 |

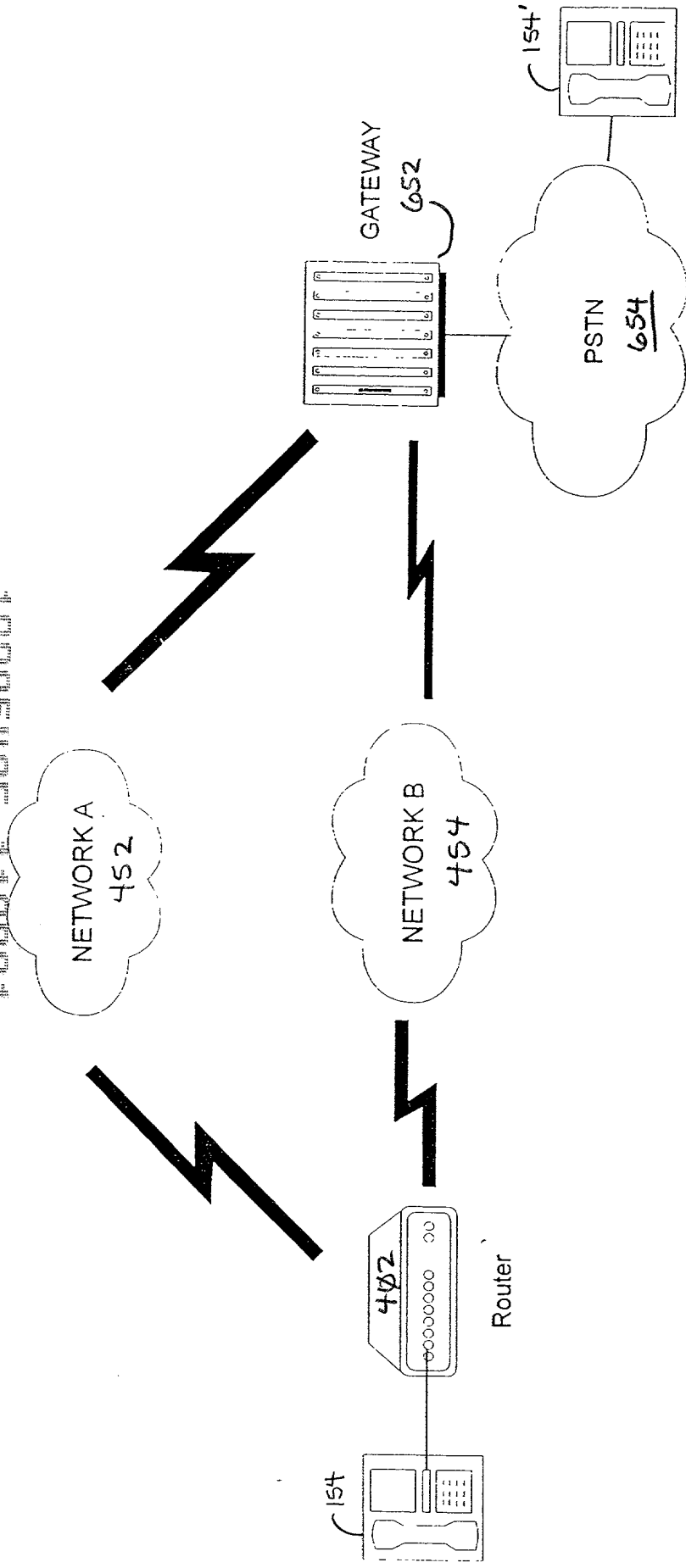
NETWORK B OFFERS BEST QUALITY / VALUE

FIGURE 9 - CHOICE OF VON CARRIER FOR BEST QUALITY / VALUE



CALL IS MADE THOROUGH VON CARRIER A, BUT IS SWITCHED TO CARRIER B DUE TO A CHANGE IN THE QUALITY.

FIGURE 10 - CALL-IN-PROGRESS SWITCHOVER DUE TO A CHANGE IN QUALITY



CALL IS MADE THOROUGH VON CARRIER A, BUT IS SWITCHED TO CARRIER B DUE TO A CHANGE IN THE QUALITY.

FIGURE 11 - CALL-IN-PROGRESS SWITCHOVER ON A PSTN-TERMINATED CALL